

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A computer-implemented method of judging changes in components of an eye, comprising:
 - acquiring at least two different digital images of the components of the eye;
 - displaying the digital images on a computer-driven display;
 - superimposing the digital images on the computer-driven display;
 - processing at least one of the digital images, wherein the processing comprises warping the digital images; and
 - comparing the superimposed digital images as a function of the processing.
2. (Original) The computer-implemented method of claim 1, wherein the processing comprises registering the digital images.
3. (Original) The computer-implemented method of claim 2, wherein the registering of the digital images comprises non-rigid, non-global deforming of the digital images.
4. (Canceled).
5. (Currently Amended) The computer-implemented method of claim 4, wherein the warping comprises at least one of the following: global and non-global deforming of the digital images.
6. (Original) The computer-implemented method of claim 1, wherein the processing comprises aligning the digital images.
7. (Original) The computer-implemented method of claim 6, wherein the aligning comprises non-rigidly aligning the digital images.

8. (Original) The computer-implemented method of claim 6, wherein the aligning comprises rigidly aligning the digital images.

9. (Previously Presented) The computer-implemented method of claim 1, further comprising detecting changes among the flickered, superimposed digital images.

10. (Original) The computer-implemented method of claim 1, further comprising at least one of the following: diagnosing, documenting, and managing a condition of the eye as a function of the detected changes.

11. (Previously Presented) The computer-implemented method of claim 1, wherein the acquiring of the digital images further comprises converting a photographic representation of the components of the eye to the digital image.

12. (Previously Presented) The computer-implemented method of claim 1, further comprising selecting at least two of the acquired digital images.

13. (Currently Amended) A system for judging changes in components of an eye, comprising:

a data processor that receives and superimposes the different digital images of the components of the eye, and that processes the digital images to facilitate comparison among the images by warping the digital images;

a display device in communication with the data processor, wherein the display device displays the digital images and the superimposed digital images; and

a control unit in communication with the data processor, wherein the control unit compares the superimposed digital images as a function of the processing.

14. (Original) The system of claim 13, further comprising an image scanner in communication with the data processor for converting photographic images of the components of the eye to the digital images.

15. (Original) The system of claim 13, wherein the control unit allows for flickering among the superimposed digital images.

16. (Original) The system of claim 13, further comprising a digital image acquisition device in communication with the data processor for acquiring the digital images.

17. (Original) The system of claim 13, further comprising a data store in communication with the data processor for storing the digital images.

18. (Original) The system of claim 13, wherein the control unit comprises at least one of the following: a keyboard, a mouse, a joystick, and a microphone.

19. (Original) The system of claim 13, wherein the digital image acquisition device comprises at least one of the following: a direct ophthalmoscope, an indirect ophthalmoscope, a slitlamp biomicroscope, and a fundus camera.

20. (Original) The system of claim 13, wherein the digital images depict an optic nerve head component of the eye.

21. (Original) The system of claim 13, wherein the digital images are monoscopic.

22. (Currently Amended) A computer-implemented method of judging changes in components of an eye, comprising:

acquiring at least two different digital images of components of the eye;

displaying the digital images on a computer-driven display;

processing at least one of the digital images, wherein the processing comprises warping the digital images; and

superimposing the digital images on the computer-driven display; and
flickering among the superimposed digital images.

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23. (Original) The computer-implemented method of claim 22, further comprising processing at least one of the digital images such that the superimposed images may be compared.